SEQUENCE LISTING

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Rosen, Steven
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Hemmerich, Stefan

<120> HEC-GlcNAc6ST

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<140> US 08/645,078
<141> 2000-08-23

<150> PCT/US99/04316
<151> 1998-02-26

<150> US 09/190,911
<151> 1998-11-12

<150> US 09/045,284
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<213> HOMO SAPIENS

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            20                  25                  30
Ser Leu Ser Met Lys Ala Gln Pro Glu Arg Met His Val Leu Val Leu
            35                  40                  45
Ser Ser Trp Arg Ser Gly Ser Ser Phe Val Gly Gln Leu Phe Gly Gln
    50                  55                  60
His Pro Asp Val Phe Tyr Leu Met Glu Pro Ala Trp His Val Trp Met
65                  70                  75                  80
Thr Phe Lys Gln Ser Thr Ala Trp Met Leu His Met Ala Val Arg Asp
                85                  90                  95
Leu Ile Arg Ala Val Phe Leu Cys Asp Met Ser Val Phe Asp Ala Tyr
            100                 105                 110
Met Glu Pro Gly Pro Arg Arg Gln Ser Ser Leu Phe Gln Trp Glu Asn
            115                 120                 125
Ser Arg Ala Leu Cys Ser Ala Pro Ala Cys Asp Ile Ile Pro Gln Asp
    130                 135                 140
Glu Ile Ile Pro Arg Ala His Cys Arg Leu Leu Cys Ser Gln Gln Pro
145                 150                 155                 160
Phe Glu Val Val Glu Lys Ala Cys Arg Ser Tyr Ser His Val Val Leu
                165                 170                 175
Lys Glu Val Arg Phe Phe Asn Leu Gln Ser Leu Tyr Pro Leu Leu Lys
            180                 185                 190
Asp Pro Ser Leu Asn Leu His Ile Val His Leu Val Arg Asp Pro Arg
            195                 200                 205
Ala Val Phe Arg Ser Arg Glu Arg Thr Lys Gly Asp Leu Met Ile Asp
    210                 215                 220
Ser Arg Ile Val Met Gly Gln His Glu Gln Lys Leu Lys Lys Glu Asp
225                 230                 235                 240
Gln Pro Tyr Tyr Val Met Gln Val Ile Cys Gln Ser Gln Leu Glu Ile
                245                 250                 255
Tyr Lys Thr Ile Gln Ser Leu Pro Lys Ala Leu Gln Glu Arg Tyr Leu
            260                 265                 270
Leu Val Arg Tyr Glu Asp Leu Ala Arg Ala Pro Val Ala Gln Thr Ser
            275                 280                 285
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2

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Arg Met Tyr Glu Phe Val Gly Leu Glu Phe Leu Pro His Leu Gln Thr
    290                 295                 300
Trp Val His Asn Ile Thr Arg Gly Lys Gly Met Gly Asp His Ala Phe
305                 310                 315                 320
His Thr Asn Ala Arg Asp Ala Leu Asn Val Ser Gln Ala Trp Arg Trp
                325                 330                 335
Ser Leu Pro Tyr Glu Lys Val Ser Arg Leu Gln Lys Ala Cys Gly Asp
                340                 345                 350
Ala Met Asn Leu Leu Gly Tyr Arg His Val Arg Ser Glu Gln Glu Gln
            355                 360                 365
Arg Asn Leu Leu Leu Asp Leu Leu Ser Thr Trp Thr Val Pro Glu Gln
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385
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<210> 3
<211> 1926
<212> DNA
<213> MOUSE

<400> 3
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ggtaggatat tctcggtggt ttgatggatg agaaagccca gagggtgagt tttaaagact  180
tgtaacatag aatgcagtga tccaattaag agccagaatt actttgcaga gggatctgga  240
caaatacttg caggaatgtt tttggttttt gtttgtttgt ttgtttgttt tacattgctc  300
cttggatggg aatccagaga agcccgaagg tagatgctgt aacaacctaa ctcagcccca  360
tcccctctgc ttgctctttc aaggtcttct ccttcttccg caggatgatg ctgttgaaga  420
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atgtgttcta cctgatggag cctgcctggc atgtgtggat gactttcacc agcagcacag  660
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<211> 388
<212> PRT
<213> MOUSE

<400> 4
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             20                  25                  30
Ser Gln Arg Glu Glu Ser Arg Arg Pro Val His Val Leu Val Leu Ser
         35                  40                  45
Ser Trp Arg Ser Gly Ser Ser Phe Val Gly Gln Leu Phe Gly Gln His
     50                  55                  60
Pro Asp Val Phe Tyr Leu Met Glu Pro Ala Trp His Val Trp Met Thr
65                  70                  75                  80
Phe Thr Ser Ser Thr Ala Trp Lys Leu His Met Ala Val Arg Asp Leu
                 85                  90                  95
Leu Arg Ser Val Phe Leu Cys Asp Met Ser Val Phe Asp Ala Tyr Met
             100                 105                 110
Asn Pro Gly Pro Arg Lys Gln Ser Ser Leu Phe Gln Trp Glu Gln Ser
         115                 120                 125
Arg Ala Leu Cys Ser Ala Pro Val Cys Asp Phe Phe Pro Ala His Glu
         130                 135                 140
Ile Ser Ser Pro Lys His Cys Lys Leu Leu Cys Gly Gln Gln Pro Phe
145                 150                 155                 160
Asp Met Val Glu Lys Ala Cys Arg Ser His Gly Phe Val Val Leu Lys
                 165                 170                 175
Glu Val Arg Phe Leu Ser Leu Gln Ala Leu Tyr Pro Leu Leu Thr Asp
             180                 185                 190
Pro Ser Leu Asn Leu His Val Val His Leu Val Arg Asp Pro Arg Ala
         195                 200                 205
Val Phe Arg Ser Arg Glu His Thr Thr Ile Glu Leu Met Val Asp Ser
     210                 215                 220
His Ile Val Leu Gly Gln His Leu Glu Thr Ile Lys Glu Glu Asp Gln
225                 230                 235                 240
Pro Tyr Tyr Ala Met Lys Ile Ile Cys Lys Ser Gln Val Asp Ile Val
                 245                 250                 255
Lys Ala Ile Gln Thr Leu Pro Glu Ala Leu Gln Gln Arg Tyr Leu Phe
             260                 265                 270
Leu Arg Tyr Glu Asp Leu Val Arg Ala Pro Leu Ala Gln Thr Thr Arg
         275                 280                 285
Leu Tyr Lys Phe Val Gly Leu Asp Phe Leu Pro His Leu Gln Thr Trp
         290                 295                 300
Val Tyr Asn Val Thr Arg Gly Lys Gly Met Gly Gln His Ala Phe His
305                 310                 315                 320
Thr Asn Ala Arg Asn Ala Leu Asn Val Ser Gln Ala Trp Arg Trp Ser
                 325                 330                 335
Leu Pro Tyr Glu Lys Val Ser Gln Leu Gln Asp Ala Cys Gly Glu Ala
         340                 345                 350
Met Asp Leu Leu Gly Tyr Leu Gln Val Arg Ser Gln Gln Glu Gln Gly
         355                 360                 365
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370                 375                 380
Phe Arg Glu Gly
385
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4

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<213> Artificial Sequence

<220>
<223> synthetic primer

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<212> DNA
<213> Artificial Sequence

<220>
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<400> 6
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<210> 7
<211> 29
<212> PRT
<213> Artificial Sequence

<220>
<223> synthetic primer

<400> 7
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 1   5   10   15
Cys Ile Cys Thr Ile Thr Gly Gly Cys Ala Tyr Ser Thr
            20   25

<210> 8
<211> 59
<212> DNA
<213> Artificial Sequence

<220>
<223> synthetic primer

<400> 8
caagagtgtt ttctaaatac agtattgtag aaagtaattg ccaatagcat gagtctgga   59

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<220>
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<400> 9

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<400> 11
gggagataag gcaacagtta aagacggccc                                     30

<210> 12
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<220>
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<400> 12
catgggtcag catgccttcc atactaacgc ca                                  32

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<212> DNA
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<223> synthetic primer

<400> 13
ctctgcttgg ggctgaggag aaaggggcac tc                                  32

<210> 14
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<220>
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<400> 14
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<212> DNA
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<210> 17
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<220>
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<213> Homo Sapiens

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            20   25

<210> 19
<211> 29
<212> PRT
<213> Homo Sapiens

<400> 19
Thr Trp Arg Ser Gly Ser Ser Phe Phe Gly Glu Leu Phe Asn Gln Asn
1   5   10   15
Pro Glu Val Phe Phe Leu Tyr Glu Pro Val Trp His Val
            20   25

7

<210> 20
<211> 29
<212> PRT
<213> Homo Sapiens

<400> 20
Thr Thr Arg Ser Gly Ser Ser Phe Val Gly Gln Leu Phe Asn Gln His
1   5   10   15
Leu Asp Val Phe Tyr Leu Phe Glu Pro Leu Tyr His Val
            20   25

<210> 21
<211> 29
<212> PRT
<213> Homo Sapiens

<400> 21
Thr Thr Arg Thr Gly Ser Ser Phe Val Gly Glu Phe Phe Asn Gln Gln
1   5   10   15
Gly Asn Ile Phe Tyr Leu Phe Glu Pro Leu Trp His Ile
            20   25

<210> 22
<211> 22
<212> PRT
<213> Homo Sapiens

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1   5   10   15
Ala Val Phe Arg Ser Arg
            20

<210> 23
<211> 22
<212> PRT
<213> Homo Sapiens

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Asp Pro Ala Leu Asp Leu Lys Val Ile His Leu Val Arg Asp Pro Arg
1   5   10   15
Ala Val Ala Ser Ser Arg
            20

<210> 24
<211> 22
<212> PRT
<213> Homo Sapiens

<400> 24
Asp Pro Arg Leu Asn Leu Lys Val Leu Gln Leu Val Arg Asp Pro Arg
1   5   10   15
Gly Ile Leu Ala Ser Arg

8

<210> 25
<211> 22
<212> PRT
<213> Homo Sapiens

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Ala Val Leu Ala Ser Arg
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<210> 26
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<212> PRT
<213> Homo Sapiens

<400> 26
Pro Lys Ala Leu Gln Glu Arg Tyr Leu Leu Val Arg Tyr Glu Asp Leu
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Ala Arg Ala Pro
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<210> 27
<211> 20
<212> PRT
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<400> 27
Pro Asp Trp Leu Gln Gly His Tyr Leu Val Val Arg Tyr Glu Asp Leu
1   5   10   15
Val Gly Asp Pro
            20

<210> 28
<211> 20
<212> PRT
<213> Homo Sapiens

<400> 28
Pro Pro Trp Leu Lys Gly Lys Tyr Met Leu Val Arg Tyr Glu Asp Leu
1   5   10   15
Ala Arg Asn Pro
            20

<210> 29
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<212> PRT
<213> Homo Sapiens

<400> 29

Pro Ala Trp Leu Arg Gly Arg Tyr Met Leu Val Arg Tyr Glu Asp Val
1   5   10   15
Ala Arg Gly Pro
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<210> 30
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Thr Ile Ser Thr Ile Met Gly Ile Arg Ala Tyr Cys Cys
            20   25

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<212> PRT
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<220>
<223> synthetic primer

<400> 31
Gly Gly Arg Thr Tyr Ile Cys Lys Ile Ala Ser Ile Ala Gly Tyr Trp
1   5   10   15
Gly Ile Ala Ser Ile Ala Gly Ile Thr Thr Ile Ala Gly
            20   25

<210> 32
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<212> PRT
<213> Artificial Sequence

<220>
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<400> 32
Ala Gly Arg Thr Cys Tyr Thr Cys Arg Thr Ala Ile Cys Lys Ile Ala
1   5   10   15
Gly Ile Ala Gly Ile Ala Lys Arg Thr Ala
            20   25

<210> 33
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<220>

<221> PEPTIDE
<222> 1
<223> Xaa = Thr or Ser

<221> PEPTIDE
<222> 2
<223> Xaa = any amino acid

<221> PEPTIDE
<222> 9
<223> Xaa = Val or Phe

<221> PEPTIDE
<222> 11
<223> Xaa = Gln or Glu

<221> PEPTIDE
<222> 14
<223> Xaa = any amino acid

<221> PEPTIDE
<222> 16
<223> Xaa = any amino acid

<221> PEPTIDE
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<223> Xaa = Pro or Leu

<221> PEPTIDE
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<223> Xaa = Asp or Glu

<221> PEPTIDE
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<223> Xaa = Phe or Tyr

<221> PEPTIDE
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<223> Xaa = Phe, Tyr or Met

<221> PEPTIDE
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<223> Xaa = Leu, Val or Ala

<221> PEPTIDE
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<223> Xaa = Trp or Tyr

<400> 33
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 1   5   10   15
Xaa Xaa Val Phe Xaa Leu Xaa Glu Pro Xaa Xaa His Val
            20   25

<210> 34
<211> 16

11

<212> PRT
<213> Homo Sapiens

<220>
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<222> 2
<223> Xaa = Asn or Asp

<221> PEPTIDE
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<223> Xaa = Lys or His

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<223> Xaa = Val or Ile

<221> PEPTIDE
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<223> Xaa = Ile or Val

<221> PEPTIDE
<222> 7
<223> Xaa = any amino acid

<221> PEPTIDE
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<221> PEPTIDE
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<221> PEPTIDE
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<223> Xaa = Leu or Ala or Phe

<400> 34
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 1   5   10   15

<210> 35
<211> 20
<212> PRT
<213> Homo Sapiens

<220>
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<222> 2
<223> Xaa = Any Amino Acid

<221> PEPTIDE
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<223> Xaa = Any Amino Acid

<221> PEPTIDE
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<223> Xaa = Gln or Lys

<221> PEPTIDE
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Xaa Xaa Xaa Pro
            20